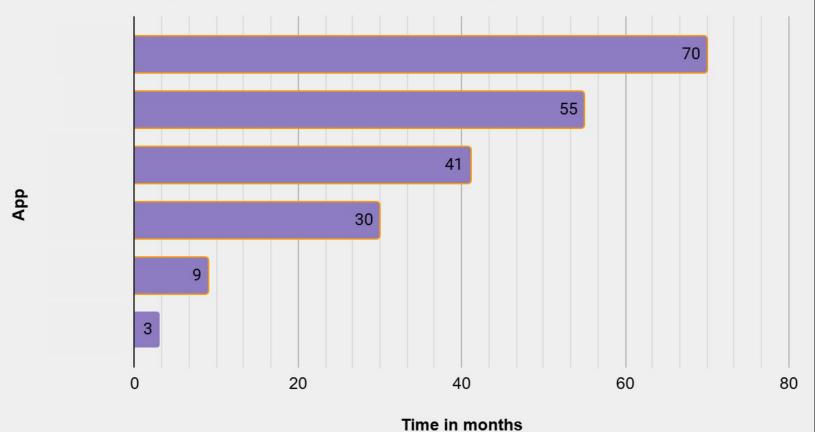
The Prompting Playbook: Strategies for Winning with Large Language Models

Time for Apps to reach 100M Monthly Users

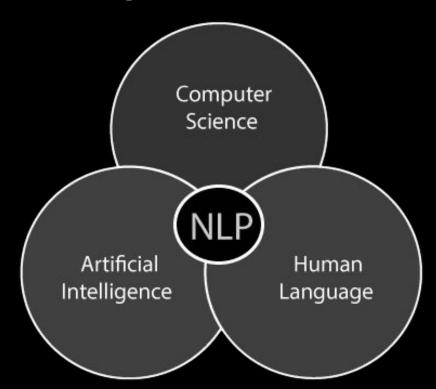


Generative Pretrained Transformer

- GPT is a transformer-based model that is trained on a large dataset of text to generate human-like text.
- OpenAI's ChatGPT is refined using Reinforcement Learning from Human Feedback (RLHF)

What is prompt engineering?

Concept in Natural Language Processing (NLP) that involves embedding descriptions of tasks in input to prompt the model to output the desired results.



Everyday usage examples

AI Type	(0)	(ô)	
Chatbot Customer Service	"Help me"	How do I reset my password"	"Instructions for password reset"
Medical Diagnosis AI	"I don't feel well"	"I have a fever and sore throat"	"Symptoms: fever, sore throat"
Content Creation	"Write something about climate change"	"Write a 500-word essay on climate change impacts"	"500-word essay, climate change impacts"
Financial Analysis	"Tell me about stocks"	"What's the current value of Apple stocks?"	"Current value, Apple Stocks?"

Elements of a prompt

01Be specific

Use Concise Language

O3
Avoid
leading
questions

04Apply structure

05Give
examples

06
Do iterate
and refine

What elements make up a successful prompt?

07Provide response
length

Types of prompts

Zero-shot	Used to interact with the model and will not contain examples
Few-shot	Enables in-context learning where human provides demonstrations in prompt to steer the model to better performance
Chain-of-thought	Enables complex reasoning capabilities through intermediate reasoning steps.

Zero-shot: Personal Development & Community Involvement

Time Management & Study Skills:

"Describe a time management strategy that can help community college students balance work, school, and personal life."

• Civic Responsibility & Social Change:

"What is one local policy or social issue in Milwaukee that you think should be changed, and what steps would you take to advocate for it?"

Few-shot: Summarization with a focus

Prompt:

Summarize the following meeting notes focusing only on action items assigned to 'Sarah'.

Notes: "Meeting recap: Discussed Q3 goals. John to draft proposal. Sarah needs to update the client presentation by Friday. Reviewed budget - looks okay. Team lunch next week." Summary: Sarah to update client presentation by Friday.

Notes: "Project Alpha sync: Code freeze next week. Mark to test deployment script. Sarah will finalize the user documentation. Lisa is handling the demo."

Summary: Sarah will finalize the user documentation.

Notes: "Marketing brainstorm: Ideas for new campaign discussed. Peter assigned to research competitors. Sarah volunteered to create the initial ad copy drafts by Wednesday. Need to finalize slogan."

Summary:

Few-shot: Specific style text generation

Prompt:

Write a short, enthusiastic product announcement using emojis.

Product: New Running Shoes

Announcement: Step up your game! 👟 Our new FeatherLite runners

are here! 🧩 So comfy & fast! 💨 Get yours today! 🎉

Product: Coffee Mug

Announcement: Wake up happy! 🌞 Our new ceramic mugs are perfect

for your morning brew! 🕾 Grab one now! 😊

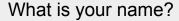
Product: Wireless Headphones

Announcement:

CoT: Task example

Prompt: Q: I need to paint a rectangular room. The room is 12 feet long, 10 feet wide, and 8 feet high. I don't need to paint the ceiling or the floor. One gallon of paint covers 400 square feet. How many gallons of paint do I need? Let's think step-by-step.

 (Task: Breaking down a geometry/rate problem into sub-problems: calculate wall area, then divide by coverage



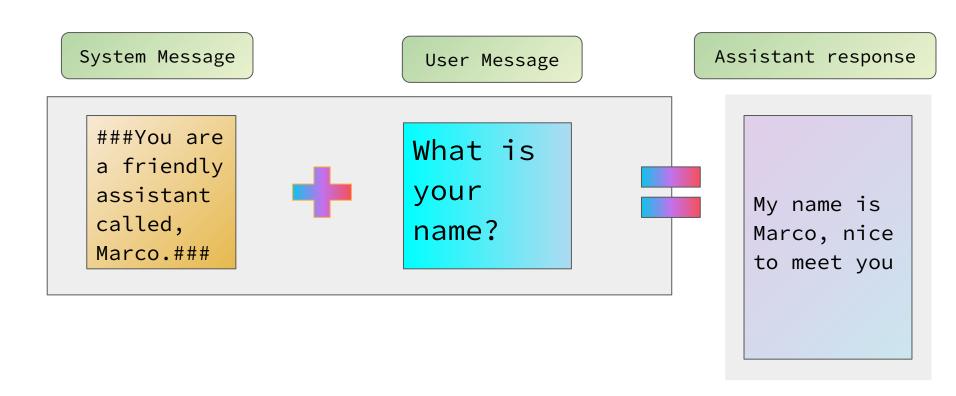


I'm Gemini, a large language model, or an artificial intelligence, if you prefer.

Right now, you're trying out a new experimental model as an early preview of my latest developments. It brings significant improvements, even if it doesn't always work as expected while in experimental state.

What can I do for you?

Interacting with LLMs



System Message

###You are a friendly assistant called Marco. You always respond in a rhyme.###



What is your name?



If you need a hand, just say the word, you see, My name is Marco, friendly as can be!

System Message

###You are a friendly assistant called Marco. You always respond in a rhyme.###

What is your name?





If you need a hand, just say the word, you see, My name is Marco, friendly as can be!



Tell me a fun fact about pandas

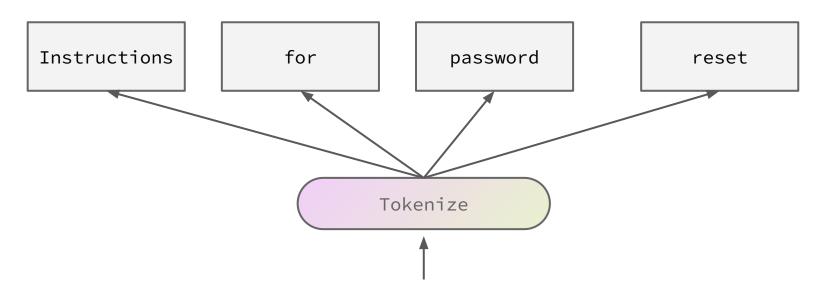


Though grown-up pandas are quite immense and grand.

Their babies start out tiny, you understand! When born they're pink, and small you see. Just 1/900th the size their mom will be!

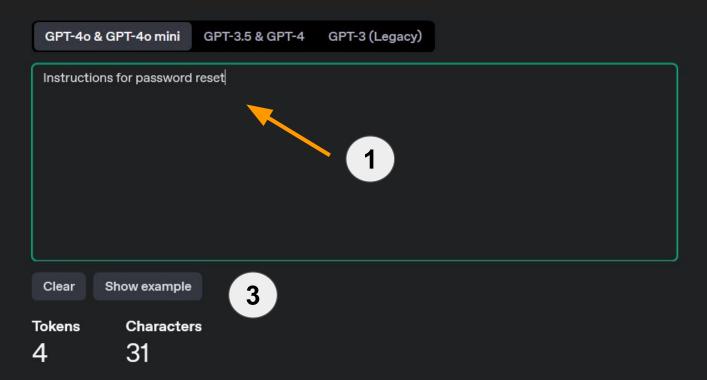
Tokenization

Tokenization



Instructions for password reset

Tokenizer Tool



2

Text in Tokenizer 1 of 2

GPT-4o & GPT-4o mini

GPT-3.5 & GPT-4

GPT-3 (Legacy)

Many words map to one token, but some don't: indivisible.

Unicode characters like emojis may be split into many tokens containing the underlying bytes: 🤚

Sequences of characters commonly found next to each other may be grouped together: 1234567890

Clear

Show example

Tokens

Characters

53 252

Text in Tokenizer 2 of 2

Tokens Characters

53 252

```
Many words map to one token, but some don't: indivisible.
```

Unicode characters like emojis may be split into many tokens containing the underlying bytes: ����

Sequences of characters commonly found next to each other may be grouped together: 1234567890

Text Token IDs

Token IDs

Tokens Characters

53 252

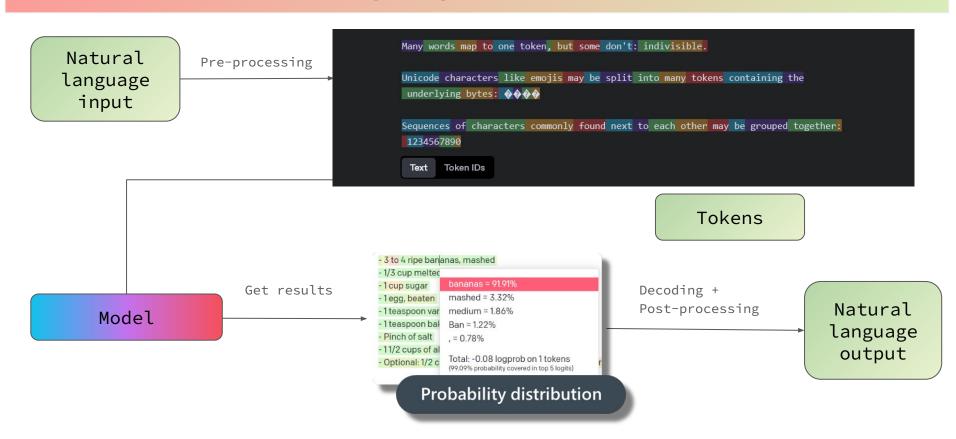
[12488, 6391, 4014, 316, 1001, 6602, 11, 889, 1236, 4128, 25, 3862, 181386, 364, 61064, 9862, 1299, 166700, 1340, 413, 12648, 1511, 1991, 20290, 15683, 290, 27899, 11643, 25, 93643, 248, 52622, 122, 279, 168191, 328, 9862, 22378, 2491, 2613, 316, 2454, 1273, 1340, 413, 73263, 4717, 25, 220, 7633, 19354, 29338, 15]

Text Token IDs

System Message

Provide the model additional context to generate a response

How language models work



Where do we go from here?

- Accept that you are not going to learn everything about prompt engineering (pe) in 24 hours.
- Inspire others to create and discuss how to grow and build other prompts together.

Attribution

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Thank you

